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NOTICE OF ALLOWANCE AND FEE(S) DUE

26694

7590

03/18/2009

VENABLE LLP P.O. BOX 34385 WASHINGTON, DC 20043-9998 EXAMINER

JAMAL, ALEXANDER

ART UNIT PAPER NUMBER

2614 DATE MAILED: 03/18/2009

APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATION		
10/577.989	05/03/2006	Masashi Takada	31869-230505	5197	

TITLE OF INVENTION: ECHO CANCELLER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/18/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence including description or directed otherwise ions.	g the Patent, advance or serwise in Block 1, by (a	rders and notification of m a) specifying a new corres	naintenance fees will pondence address; a	be mailed to the current nd/or (b) indicating a sep	t correspondence address as arate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
26694	7590 03/18/	/2009	nave		icate of Mailing or Trans	mission.	
VENABLE LL P.O. BOX 34385 WASHINGTON			I her State addr trans	eby certify that this es Postal Service with essed to the Mail Smitted to the USPTC	Fee(s) Transmittal is being sufficient postage for fir stop ISSUE FEE address 0 (571) 273-2885, on the control of the control	sinission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.	
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	А	TTORNEY DOCKET NO.	CONFIRMATION NO.	
10/577,989	05/03/2006	•	Masashi Takada	•	31869-230505	5197	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/18/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
JAMAL, AL	JAMAL, ALEXANDER		379-406080				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME ADDRESSED NOTE: Unl	ess an assignee is identi	'Indication form ed. Use of a Customer A TO BE PRINTED ON Tified below, no assignee	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be THE PATENT (print or typ data will appear on the parts of the par	ely, e firm (having as a megent) and the names neys or agents. If no printed. e) tent. If an assignee	nember a 2 of up to name is 3	document has been filed for	
(A) NAME OF ASSIC	GNEE		T a substitute for filing an a (B) RESIDENCE: (CITY) inted on the patent):	and STATE OR CO	,	oup entity 🚨 Government	
	re submitted: o small entity discount p	permitted)	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 				
••	s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the r	a Publication Fee (if requeecords of the United Sta	nred) will not be accepted tes Patent and Trademark	trom anyone other than the Office.	ne applicant; a registe	ered attorney or agent; or t	he assignee or other party in	
Authorized Signature				Date			
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This collection of informan application. Confident submitting the completed his form and/or suggesting V450. Alexandria. V	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (on is required to obtain or re 1.14. This collection is esti depending upon the indiv. e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 min idual case. Any com r, U.S. Patent and Tr D THIS ADDRESS. S	public which is to file (an nutes to complete, includi ments on the amount of ti ademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,	

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10/577,989	10/577,989 05/03/2006		Masashi Takada	31869-230505 5197		
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VENABLE LLP			JAMAL, ALEXANDER			
P.O. BOX 34385				ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20043-9998			2614			
			DATE MAILED: 03/18/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 455 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 455 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.		Applicant(s)				
10/5			TAKADA, MASASHI				
Notice of Allowability	Examiner		Art Unit				
	 ALEXANDER JA	МДІ	2614				
	ALEXANDER JA	IVIAL	2014				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) C or other appropria IGHTS. This appli	LOSED in this app	olication. If not include will be mailed in due	ed course. THIS			
1. This communication is responsive to <u>amendment 12-30-20</u>	<u>008</u> .						
2. The allowed claim(s) is/are <u>4-8</u> .							
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		19(a)-(d) or (f).					
□ Certified copies of the priority documents have □ Certified copies of the priority documents have		Application No.					
3. ☐ Copies of the certified copies of the priority documents have		· · · —		ion from the			
International Bureau (PCT Rule 17.2(a)).	cuments have bee	ii leceived iii tilis i	lational stage applicat	ion nom the			
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				OTICE OF			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				back) of			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ N	otice of Informal Pa	atent Application				
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		terview Summary	• •				
3. ☐ Information Disclosure Statements (PTO/SB/08),	F	aper No./Mail Dat kaminer's Amendr	e				
Paper No./Mail Date	,. L. C.	aninei s Amenun	ichi Comment				
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ E> 9. □ O		nt of Reasons for Allo	wance			
/Alexander Jamal/							
Primary Examiner, Art Unit 2614							

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Art Unit: 2614

DETAILED ACTION

Response to Applicant's Amendment

- 1. Based upon the submitted amendments, examiner notes that claims 4,8 have been amended and claims 1-3 are cancelled.
- **2.** Examiner withdraws all rejections to all claims.

Allowable Subject Matter

- 3. Claims 4-8 are allowed over the prior art of record
- **4.** The following is an examiner's statement of reasons for allowance:

In the examiner's opinion, it would not have been obvious to a person of ordinary skill in the art to provide three variable filters situated as claimed, with each filter being varied specifically based upon the tap length (a result obtained by detecting the second band component) in prior art echo cancellers such as those disclosed by Natarajan and He.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Jamal whose telephone number is 571-272-7498. The examiner can normally be reached on M-F 9AM-6PM.

Application/Control Number: 10/577,989

Art Unit: 2614

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Curtis A Kuntz can be reached on 571-272-7499. The fax phone numbers for the organization

Page 3

where this application or proceeding is assigned are 571-273-8300 for regular communications

and 571-273-8300 for After Final communications.

/Alexander Jamal/

Primary Examiner, Art Unit 2614

Examiner Alexander Jamal

March 18, 2009